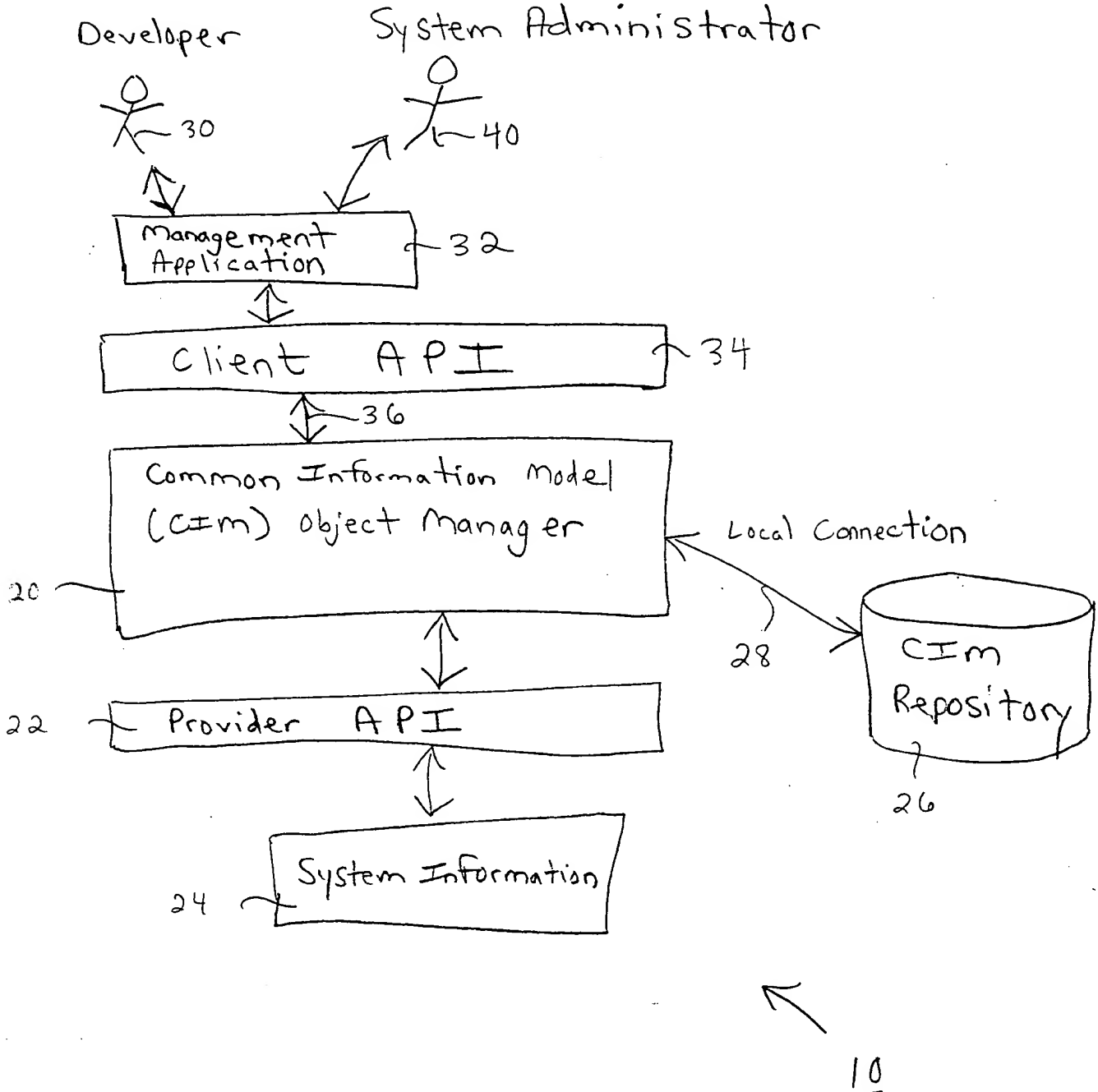


FIG. 1 (Prior Art)

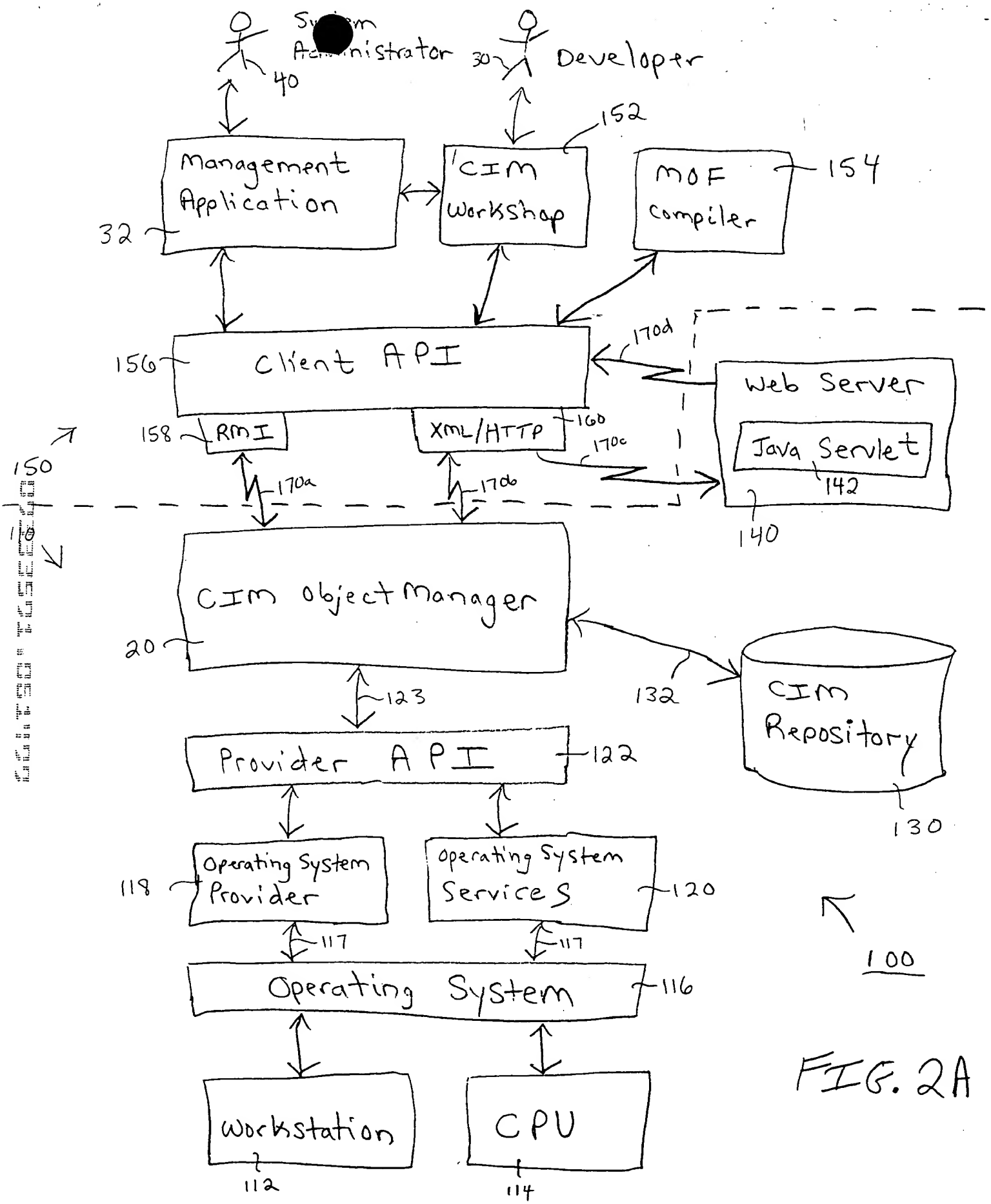

System Administrator
40
30
Developer
152
Management Application
32
CIM Workshop
MOF compiler
154
Client API
156
170d
Web Server
Java Servlet
142
140
RMI
158
XML/HTTP
160
170c
150
170a
170b
110
CIM Object Manager
20
123
132
CIM Repository
130
Provider API
122
Operating System Provider
118
operating System Services
120
117
117
Operating System
116
Workstation
112
CPU
114
100

FIG. 2A

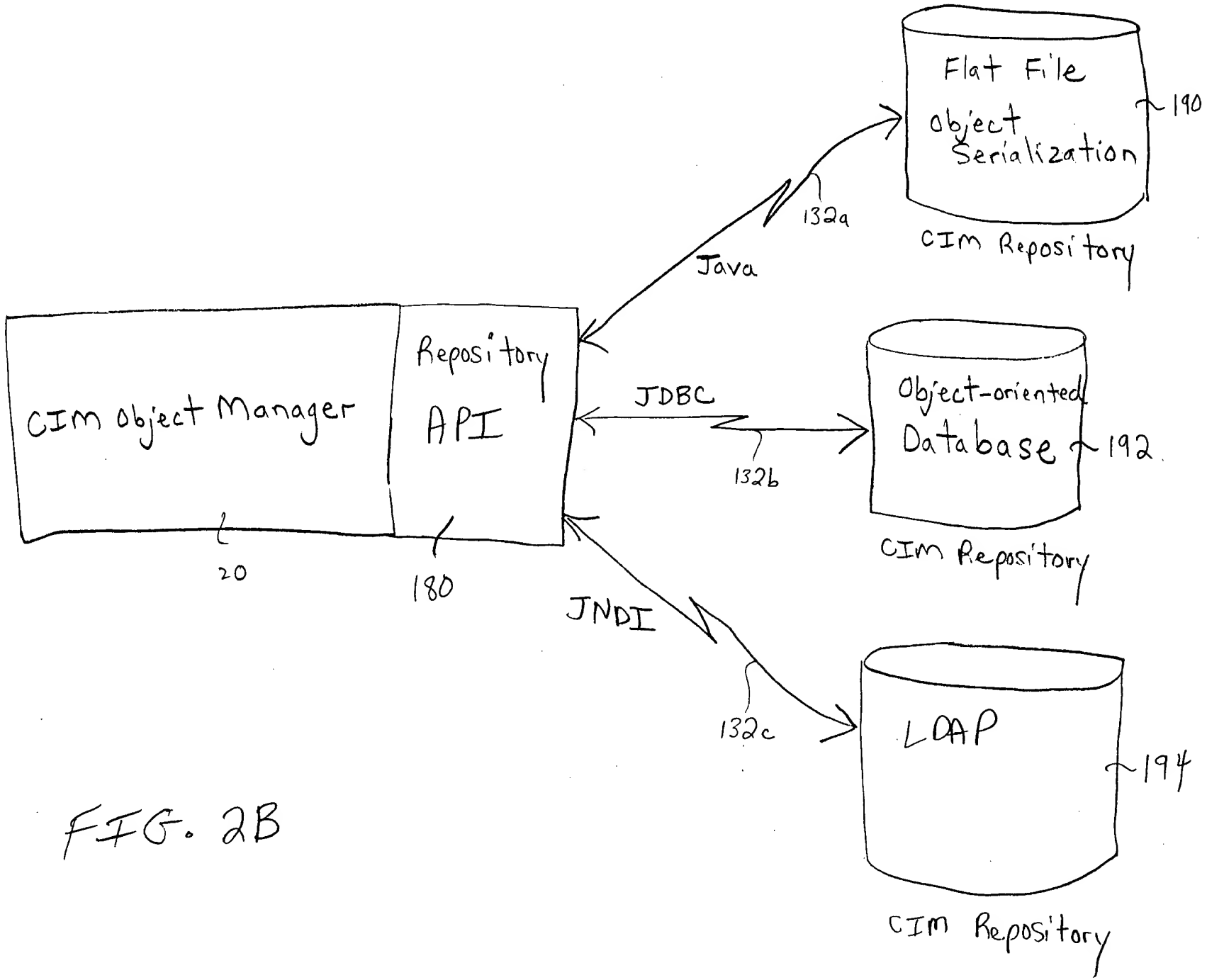

Flat File
object Serialization
190
CIM Repository
132a
Java
CIM object Manager
Repository API
JDBC
Object-oriented Database
192
CIM Repository
132b
20
180
JNDI
132c
LDAP
194
CIM Repository

FIG. 2B

BEST AVAILABLE COPY

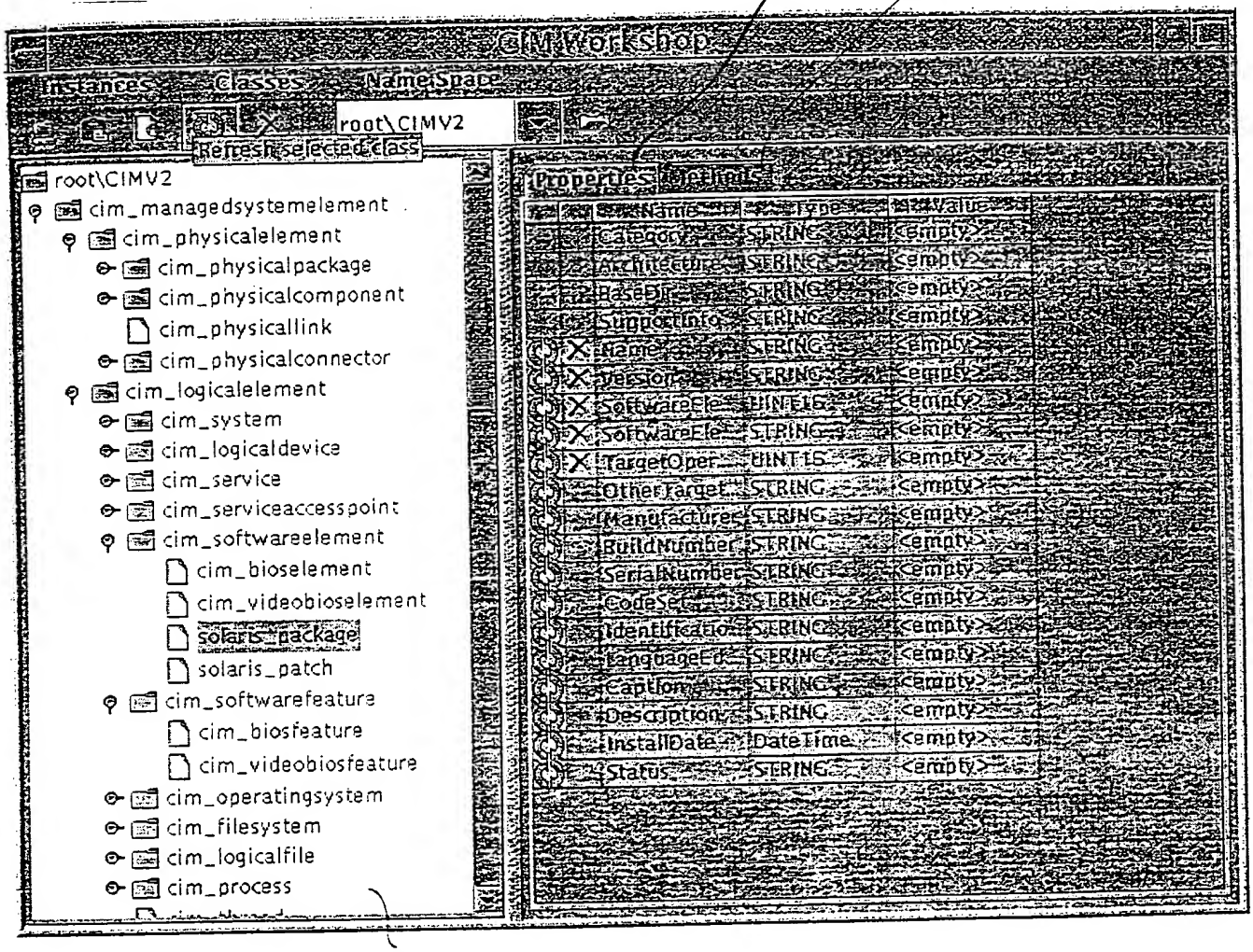


FIG. 3A

BEST AVAILABLE COPY

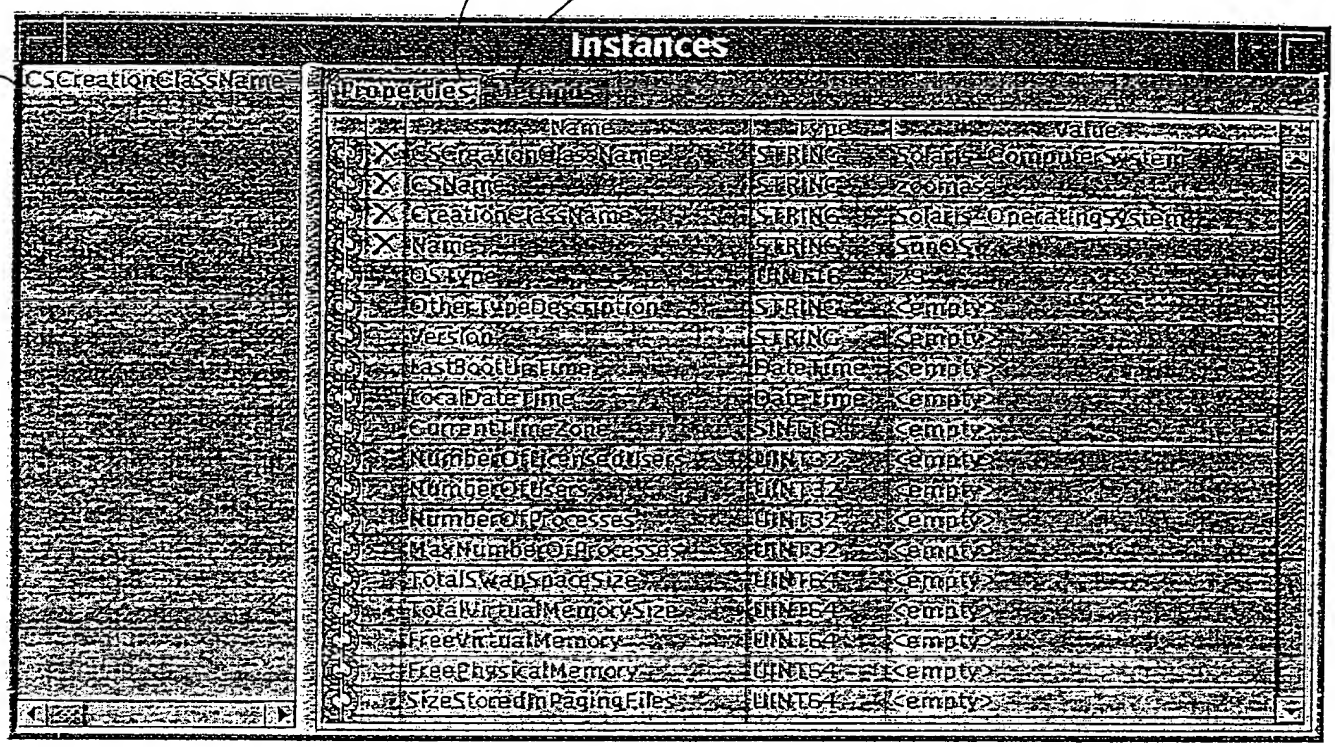


FIG. 3B

250

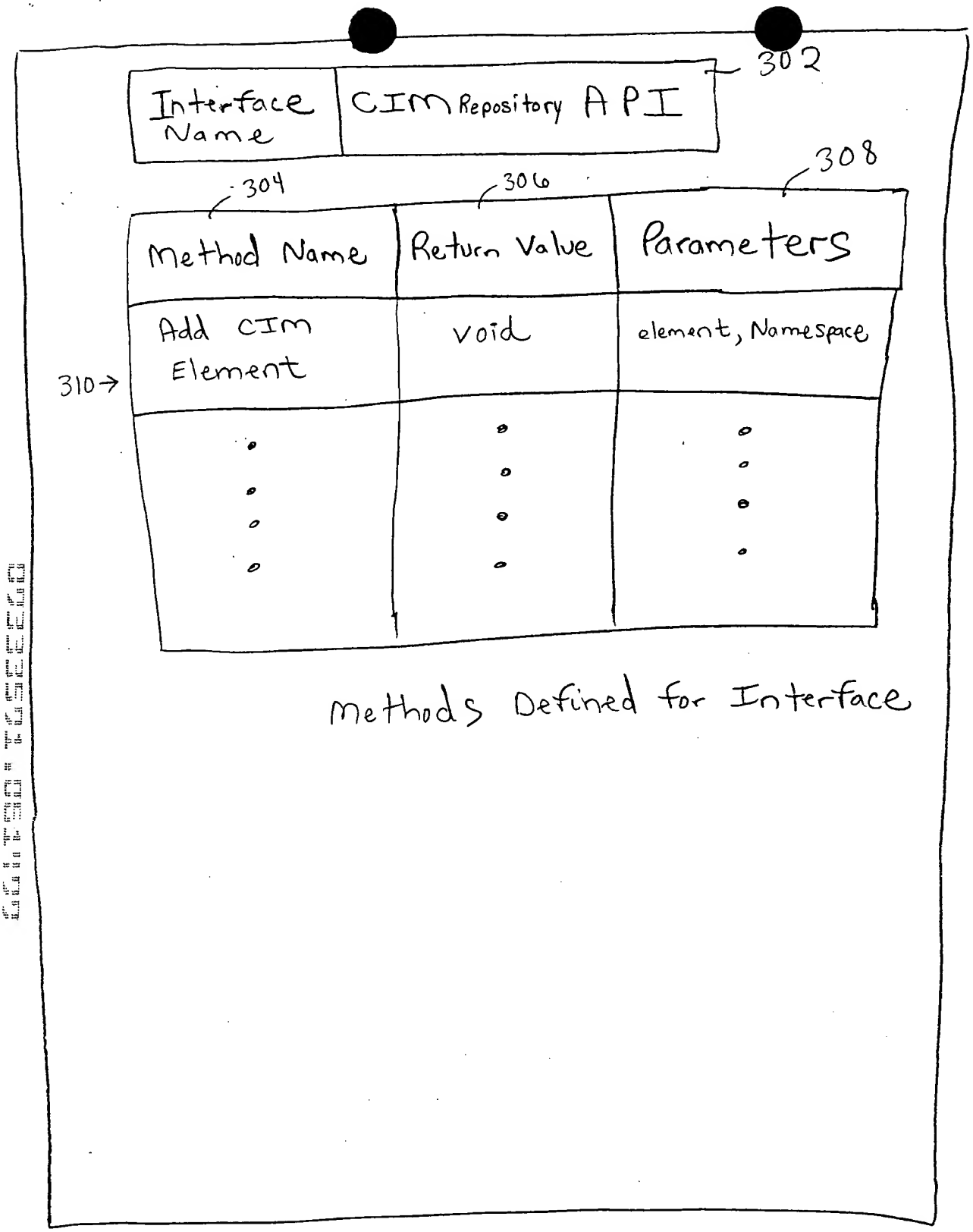

302
Interface Name
CIM Repository API
304
306
308
Method Name
Return Value
Parameters
Add CIM Element
void
element, Namespace
310
Methods Defined for Interface
Interface Definition
300

FIG. 4

Class Name	CIM Repository LDAP	402

Constructor Definition 404

406 Method Name	408 Return Value	410 Parameters	412 Implementation
416→ Add CIM Element	void	element, Namespace	[LDAP-Specific code]
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

Implementation of Methods for Interface

Implementation Definition for Interface

400

FIG. 5

Class Name	CIMRepositoryJDBC

502

Constructor Definition ~504

506 Method Name	508 Return Value	510 Parameters	512 Implementation
516→ Add CIM Element	void	element, Namespace	[JDBC-specific code]
⋮	⋮	⋮	⋮

Implementation of Methods for Interface

Implementation Definition for Interface

500

FIG. 6

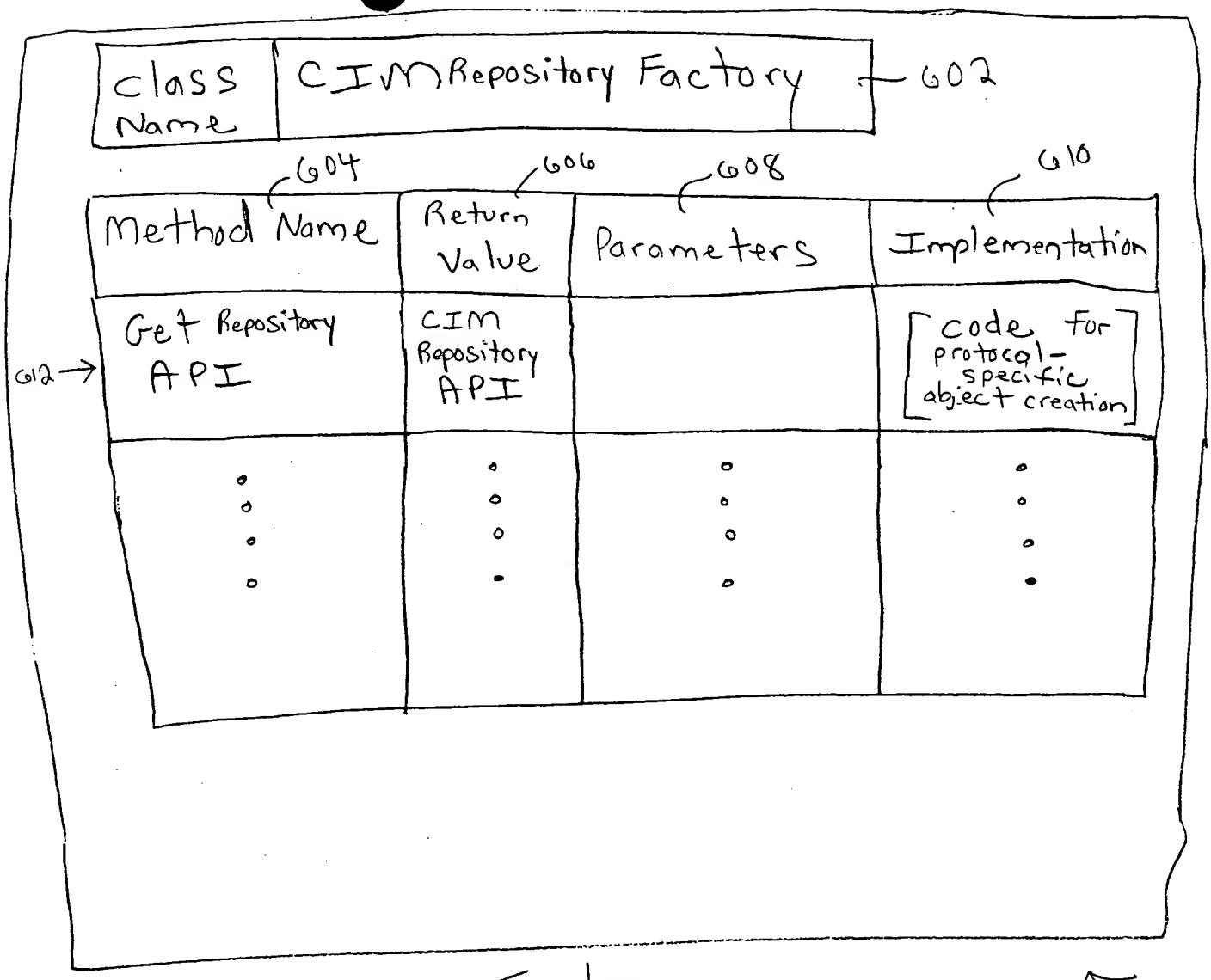
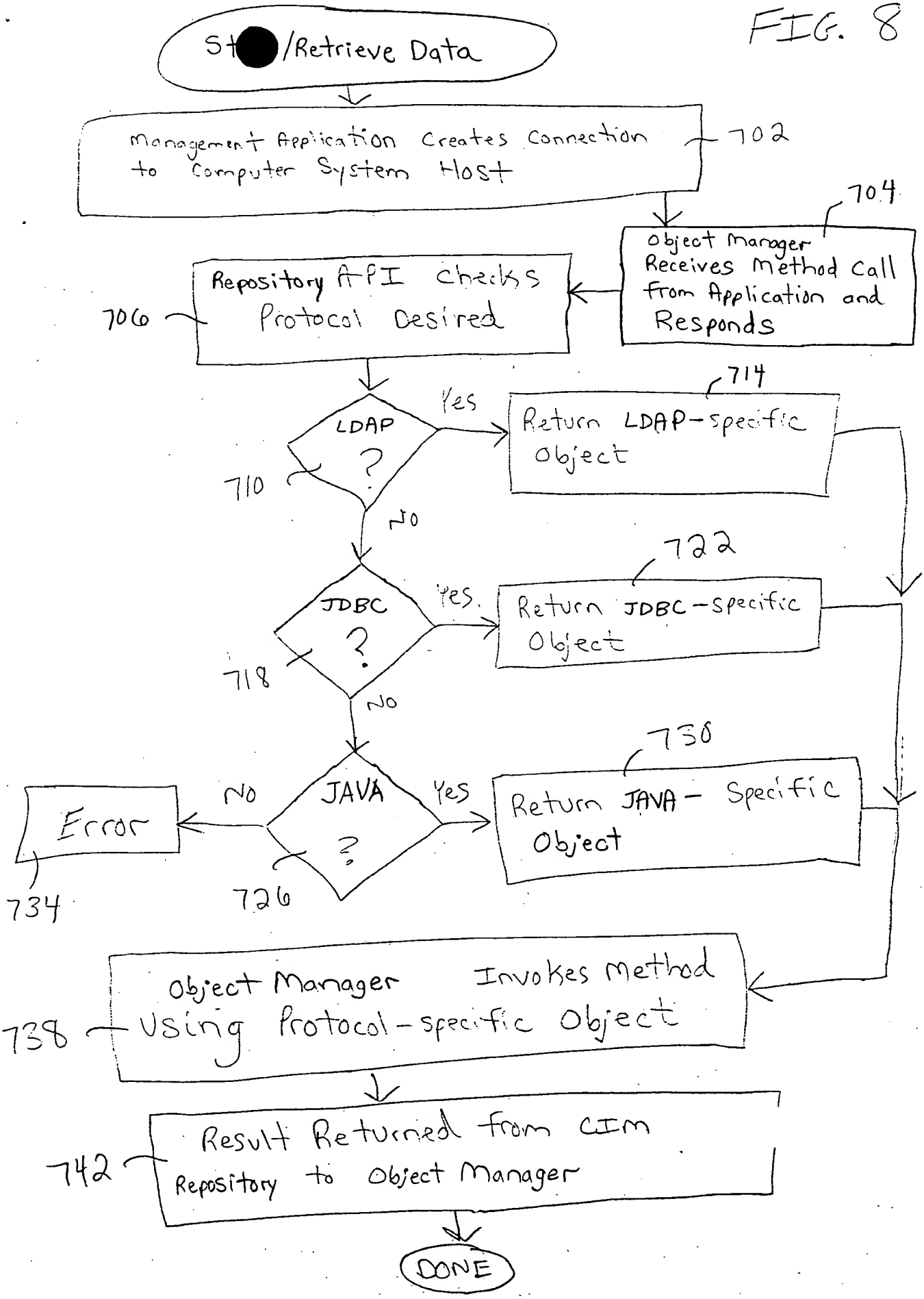

class Name
CIM Repository Factory
602
604
606
608
610
Method Name
Return Value
Parameters
Implementation
612
Get Repository API
CIM Repository API
code for protocal-specific object creation
Factory
600

FIG. 7

FIG. 8


St●/Retrieve Data
Management Application Creates Connection to Computer System Host
702
704
Object Manager Receives Method Call from Application and Responds
Repository API Checks Protocol Desired
706
LDAP ?
710
Yes
Return LDAP-specific Object
714
No
JDBC ?
718
Yes
Return JDBC-specific Object
722
No
JAVA ?
726
Yes
Return JAVA - Specific Object
730
No
Error
734
Object Manager Invokes method Using Protocol-specific Object
738
Result Returned from CIM Repository to Object Manager
742
DONE

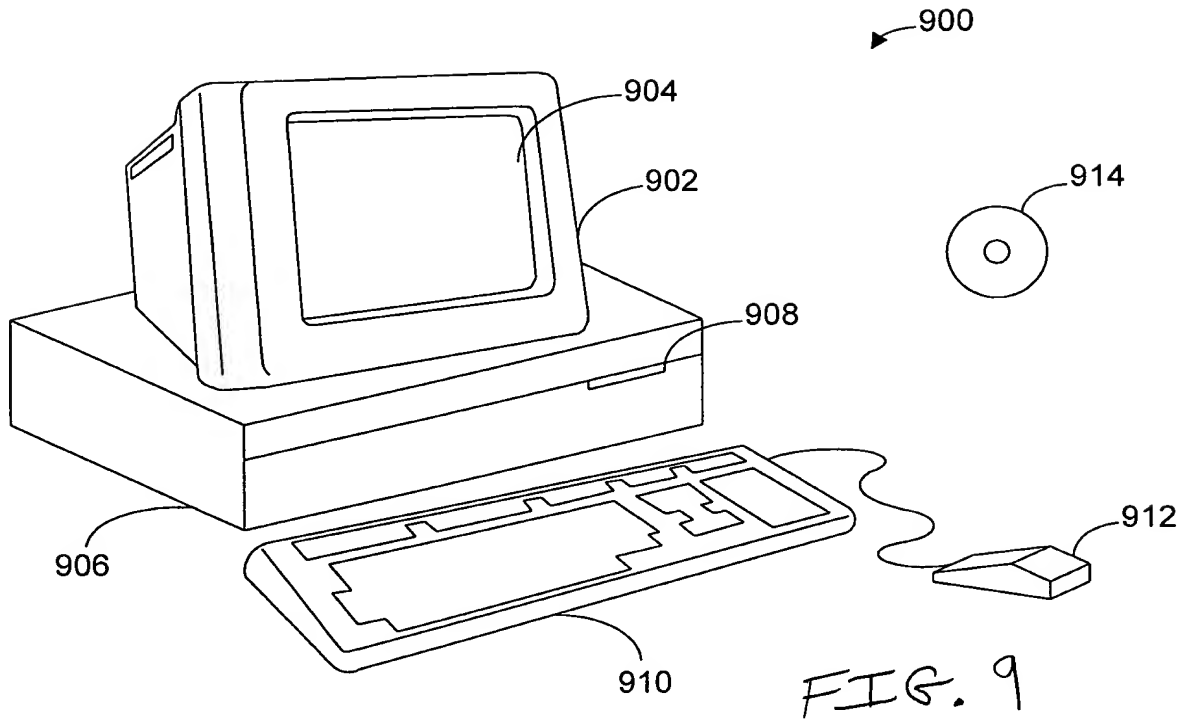

900
904
902
914
908
912
906
910

FIG. 9

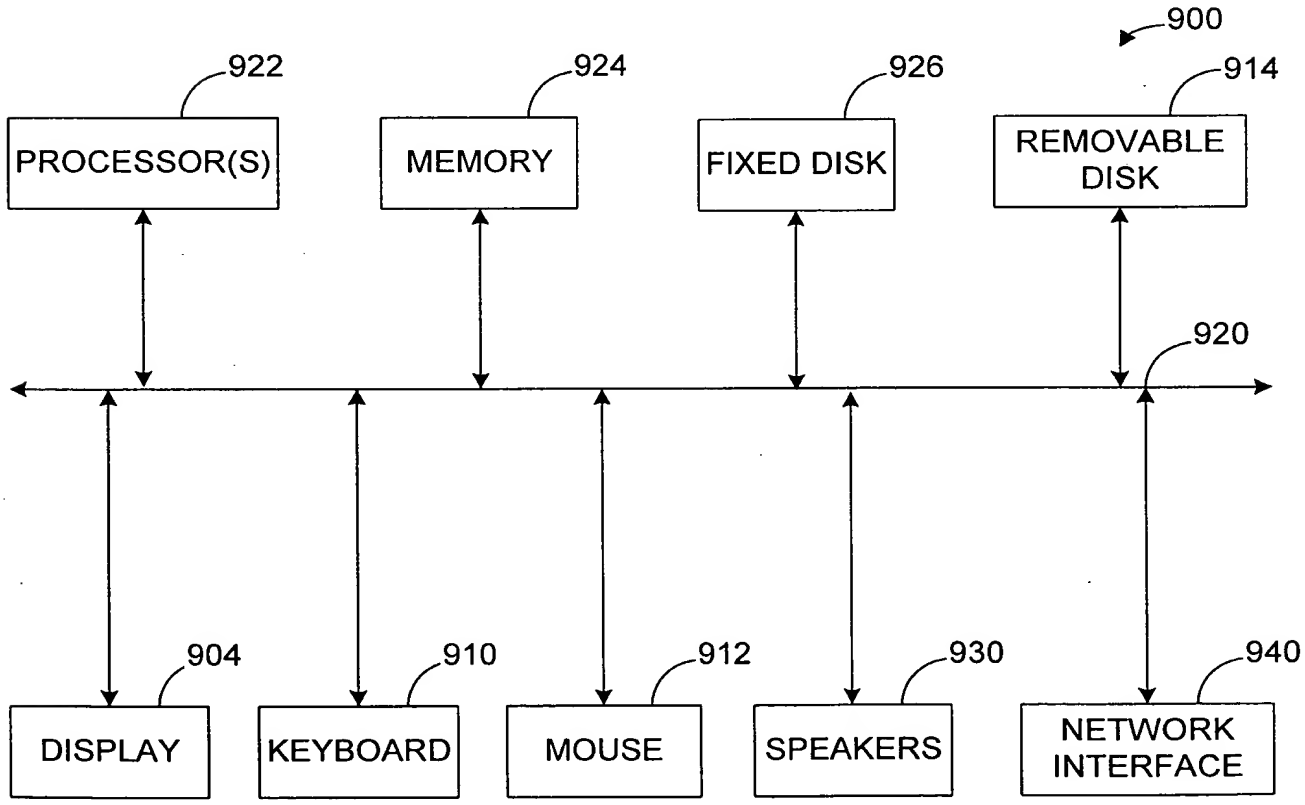

900
922
924
926
914
PROCESSOR(S)
MEMORY
FIXED DISK
REMOVABLE DISK
920
904
910
912
930
940
DISPLAY
KEYBOARD
MOUSE
SPEAKERS
NETWORK INTERFACE

FIG. 10